WEBSITE

DOCUMENTATION

for

Research Practicum 2016

School of computer Science

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prepared by

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Document revision history

Name	Date	Reason for change	Version

1. Introduction

This report aims to show in details the functionalities of the website implemented by the team "Who's There".

The aim of the website is displaying all the information regarding the room occupancy in the different building of the campus. The information is presented both in graphical formats, as graphs or heat map and/or in text format, as PDF document. The website will be accessible only UCD staff/students through credentials. Credential will be also used for differentiate the usage of the web application.
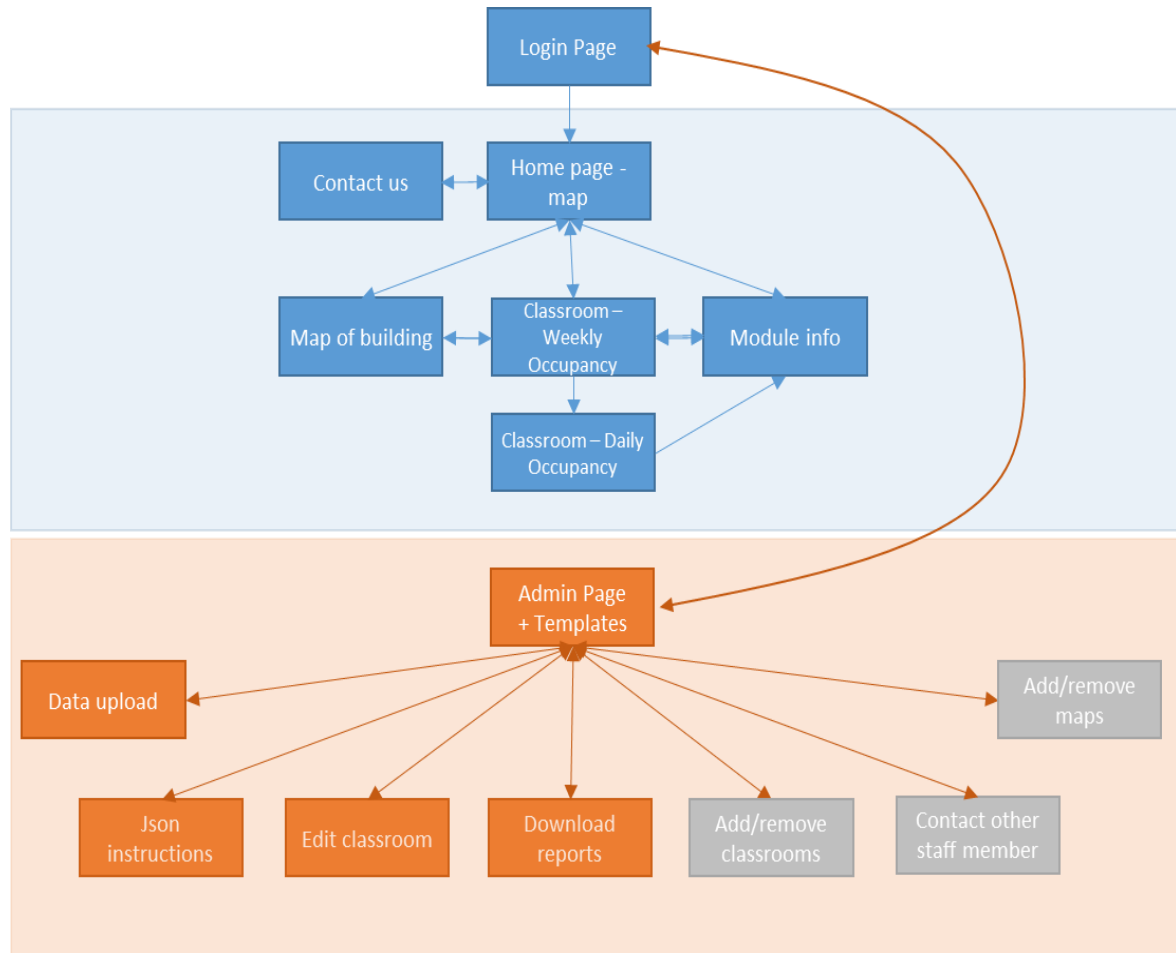
Administrative users will navigate through all the sections of the web application. They will be able to have access either in the page showing graphical information or pages, where they can upload or modify the data and download the information in form of PDF report. On the other hand general users could only access to the pages that visualise rooms' usage in the campus, timetables and free rooms.

The web application will be designed to be fault tolerant and resistant to malicious attack. The format of the data inputted by the administrator should be checked that it has been written in the default format and it has not any malicious code in it. Any admin operation that will change the data should be followed by a warning message that the data will be changed permanently. Warning messages should also warn the user if the communication with the server is slower or interrupted.

2. Website tree diagram

In this section we show with a tree diagram the structure of the website and the different in usage between the administrator and the general user.
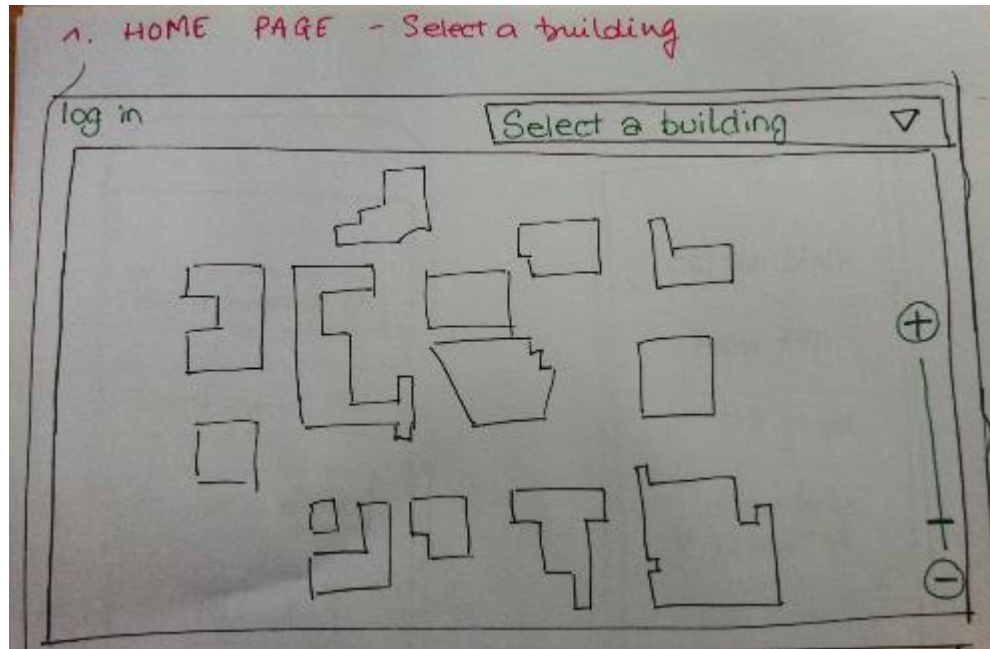
While the general user is displayed in blue, the administrator is represented in orange. In grey are indicated the pages that will not be surely implemented.

As you can see from the diagram there will be a login page for both the user. The general user will be directed in the home page, which will liked to the contact us page and to pages

3. CORE WEB PAGES

The occupancy of the room is shown directly on the map of the floor of each building using different colour. Clicking on each room the user will be able to access to all the information related to that room.

Figure 1 Prototype for the home page for the web application

The user will be able to access this section via UCD's Administrative Ethernet. From there, a user will be able to select from a drop down menu a specific room or module. Alongside this, the user has the possibility to select directly a building using the UCD map.

If the user will select a building, it will go in a page where he/she will have the possibility of selecting a room either using the dropdown menu or clicking on the room in the map (Figure 3).
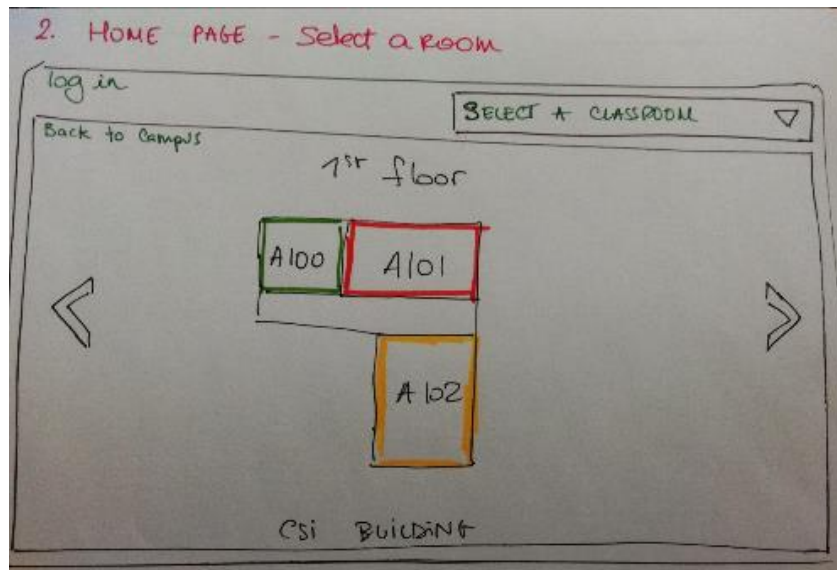
Figure 2 Prototype of the page displaying the building map

Once the user has selected a particular room he/she will be directed to the room page, where the main information are going to be graphically displayed as follow (Figure 4):

- Pie chart showing the current occupancy of the room;
- Line graph showing the weekly usage of the room;
- The module that is at the moment on in the classroom
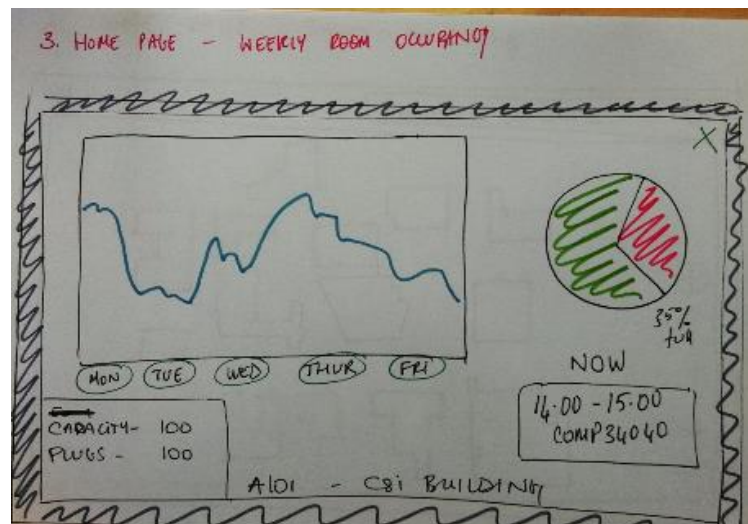- The main features of the room in term of capacity, plugs ect.

Figure 3 Prototype of the web page showing the main information for each classroom.

The user will have access to the daily usage of the room by click on each day in the labels of the axis of the graph.

On the page displaying the daily usage of the room, the user can see the occupancy of the room and the modules for each hour (Figure 5).
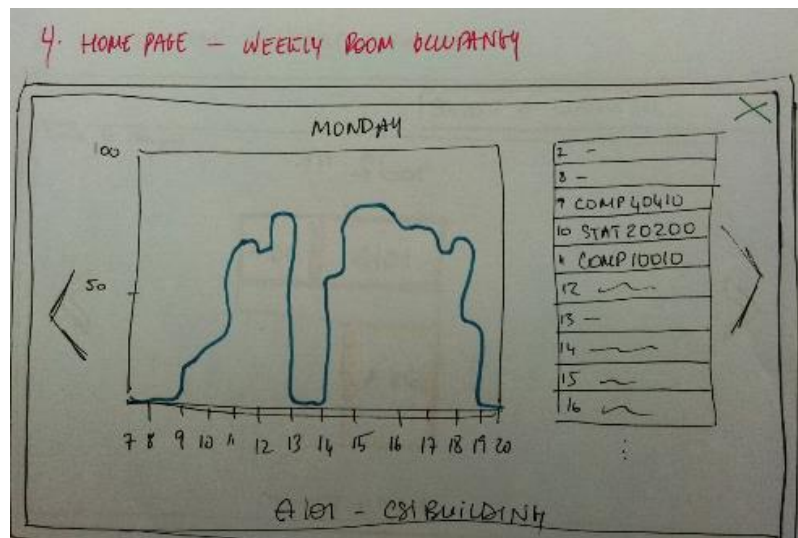

Figure 4 Prototype of the web page showing the daily usage of the room.

In this page the user will be able to click on the module and see in which building the module is taught during all the week (Figure 6). This feature will help student in organising his/her movement in the campus especially in the first month of the semester.

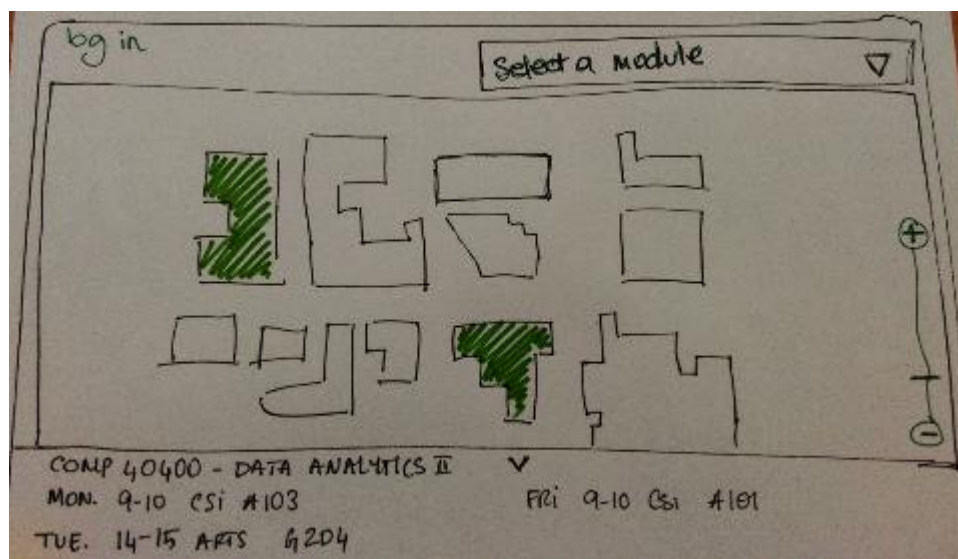This page can be reach directly selecting the module from the drop down menu in the main home page (Figure 2).

Figure 5 Prototype of the web page showing the weekly usage of the room.

4. Change Management Process

The team will follow an Agile methodology for realising this application. Therefore, all the requirements that need to be achieved will be broken down in smaller tasks, which need to be completed at the end of each sprint. At the end of each sprint the team aims to provide to the customer a prototype to be tested. This will allow the team to check if the product met the desire of the customer. If the product satisfies the customers, the team will continue with the predefined plan. In the opposite scenario, the team will take on board the customers' critics or suggestion and implement them in the next sprint.

Following this methodology will ensure the team to make changes as the project will progress.

5. Document Approvals

The document is approved by the following customer panel:

Professor Padraig Cunningham

Dr. Julie Berndsen

Dr. Gavin McArdle

Dr. Anthony Ventresque

date: ___ /___ /___